



September 23, 2021

VIA EMAIL

Mr. Tim Hull
Ohio Environmental Protection Agency
401 East Fifth Street
Dayton, Ohio 45402-2911

**RE: Response to Ohio EPA's September 20, 2021 Requests for Additional Information
Laboratory Data Report
August 30, 2021 Alternate Source Demonstration
Detection Monitoring Program
CECOS International, Inc. - Aber Road Facility
Williamsburg, Ohio
EPA I.D. No. OHD 087 433 744**

Dear Mr. Hull:

This letter is in response to Ohio EPA's September 20, 2021 request for additional information regarding the Appendix IX laboratory data package submitted with the above referenced Alternate Source Demonstration (ASD). The request was made by Greg Brown – Ohio EPA to Michael Gibson – Eagon & Associates, Inc. Based on the conversation between Mr. Brown and Mr. Gibson, it is our understanding Ohio EPA is asking for selected items in the laboratory's data report to be addressed, as follows, with CECOS' responses provided after each:

1) Provide a discussion of holding time and temperature exceedances for Method 8141B during the July 2021 event.

Response:

- Background: The laboratory, Eurofins TestAmerica of Amherst, New York (ETA Buffalo), indicated that the holding time of seven days for the Method 3510C extraction/prep for Method 8141B (organophosphorous pesticides) was exceeded by three days. ETA Buffalo subcontracts Method 8141 analyses to their Pittsburgh, Pennsylvania laboratory (ETA Pittsburgh). Whereas the samples collected on July 12th and 13th were delivered to ETA Buffalo within holding time and temperature, the overnight sample shipment via third-party courier from ETA Buffalo to ETA Pittsburgh on July 16, 2021 was delayed en route and arrived on July 21, 2021, which resulted in the holding time exceedance. The results for the seven constituents analyzed by Method 8141B for all eight groundwater samples collected as part of the July 2021 Appendix IX sampling event were flagged "H" in the laboratory data report. The shipping delay also led to complete ice melt, which allowed the cooler temperatures to rise to approximately 23 degrees Celsius; above the standard SW-846 recommendation of 6 degrees Celsius or less. Consistent with historical results at the Site, all Method 8141B results were nondetect to their respective method detection limits and no QA/QC issues were noted in the analysis results themselves. It

September 23, 2021

Page 2

is also noted that the samples were analyzed within their technical holding time of 40 days (47 days total).

- According to standard guidance, including the CLP National Functional Guidelines for Data Review, professional judgment should be used when considering pesticide results with temperature and/or holding time exceedances. Ohio EPA's Tier 1 Data Validation Manual (June 2011) does not specifically address either issue with respect to pesticide analyses.
- It is noted that formal Tier 1 data validation was not performed for the July 2021 Appendix IX analysis results and is not required by the facility's post-closure plan.; however, based on the occurrence of both temperature and holding time exceedances for the July 2021 samples analyzed by Method 8141B, it is recommended that those results should be considered as estimated nondetect (UJ). Accordingly, the results for Method 8141B analyses tabulated in Attachment 1 of the August 30, 2021 ASD have been revised and flagged UJ. An updated analytical results summary table is included herein and replaces the version included in Attachment 1 of the August 30, 2021 ASD.
- In consideration of the above factors and a review of historical results, it is concluded that the July 2021 Method 8141B results are representative of groundwater quality conditions at the respective monitoring wells during event.

2) *Ohio EPA suggested that data qualifiers included in the laboratory data report should also be included in the data summary tables presented as Attachment 1 to the ASD. In particular: A) the "S1-" qualifier should be addressed and noted in Attachment 1 for surrogate recoveries of 1,2-Dichloroethane (12DCA) for the Method 8260C results for six of the eight groundwater samples analyzed during the July 2021 Appendix IX sampling event; and B) the "N6+" qualifier (potential high bias) applied to all July 2021 dissolved barium results should be addressed and noted in Attachment 1.*

Response (General):

- CECOS recommends avoiding a wholesale approach where data qualifiers presented in the laboratory data reports should also be included to flag summary data results presented in Attachment 1 of the ASD. Final analytical results should only be qualified after performing full data validation and using best professional judgment, when appropriate. As previously discussed, data validation is not a component of standard data review requirements for the July 2021 sampling results. Nonetheless, Ohio EPA's request for additional information is understandable and the issues raised above are addressed further below.

Response 2A:

- With respect to the S1- qualifier (surrogate recovery outside acceptance limits, low biased) for 12DCA surrogate recoveries, it is noted that 12DCA surrogate recoveries for the six respective analyses ranged between 81 – 85 percent; slightly below the lower acceptance limit of 86 percent.
- Reanalysis was not performed and, in accordance with the Ohio EPA's Tier 1 guidance, the respective results may be qualified using best professional judgment.

September 23, 2021

Page 3

- July 2021 Method 8260C results (all nondetect) were consistent with the April/May 2021 Method 8260C results. All surrogate recoveries were within acceptance criteria for the April/May event.
- It has been determined that the July 2021 Method 8260C results are representative of groundwater quality and that it is not necessary to flag or reject any of those results.

Response 2B:

- With respect to the ^6+ qualifier (potential high bias) assigned to all of the July 2021 results for dissolved barium, as discussed in the ASD, the results were consistent with historical results and were not statistically significant. Therefore, although the laboratory indicated that the "interference Check Standard...was outside acceptance limits biased high", it is concluded that the results are representative and that no qualification is required.

Please call me at (513) 724-6114 if you have any questions.

Sincerely,
CECOS International, Inc.



Andrew Thompson
Environmental Manager

cc: Lisa Graczyk, US EPA Region 5
Todd Gmitro, US EPA Region 5
Hannah Lubbers, Director – OEQ, Clermont County
Joe Montello, Republic Services, Inc.
Michael Gibson, Eagon & Associates, Inc.

File: B.3

Channel Sand Monitoring Wells - Analytical Data Summary Table - July 13, 2021

Aber Road Landfill Client: Aber Road Landfill Data: Aber Road - CS Printed 9/21/2021, 9:42 AM

	MP-281C	MP-406C
1112-Tetrachloroethane (ug/L)	<2	<2
111-Trichloroethane (ug/L)	<2	<2
1122-Tetrachloroethane (ug/L)	<2	<2
112-Trichloroethane (ug/L)	<2	<2
11-Dichloroethane (ug/L)	<2	<2
11-Dichloroethylene (ug/L)	<2	<2
123-Trichloropropane (ug/L)	<2	<2
1245-Tetrachlorobenzene (ug/l)	<20	<20
124-Trichlorobenzene (ug/L)	<10	<10
12-Dibromo-3-chloropropane (ug/L)	<0.01	<0.011
12-Dibromoethane (ug/L)	<0.01	<0.011
12-Dichlorobenzene (ug/L)	<10	<10
12-Dichloroethane (ug/L)	<2	<2
12-Dichloroethene [total] (ug/L)	<2	<2
12-Dichloropropane (ug/L)	<2	<2
13-Dichlorobenzene (ug/L)	<10	<10
14-Dichlorobenzene (ug/L)	<10	<10
14-Dioxane (ug/L)	<1000	<1000
14-Naphthoquinone (ug/l)	<50	<50
1-Naphthylamine (ug/l)	<10	<10
22'-oxybis[1-Chloropropane] (ug/l)	<10	<10
2346-Tetrachlorophenol (ug/l)	<10	<10
245-T (ug/l)	<0.48	<0.48
245-TP [Silvex] (ug/l)	<0.34	<0.34
245-Trichlorophenol (ug/l)	<10	<10
246-Trichlorophenol (ug/l)	<10	<10
24-D (ug/l)	<1.2	<1.2
24-Dichlorophenol (ug/l)	<10	<10
24-Dimethylphenol (ug/l)	<10	<10
24-Dinitrophenol (ug/l)	<50	<50
24-Dinitrotoluene (ug/l)	<10	<10
26-Dichlorophenol (ug/l)	<10	<10
26-Dinitrotoluene (ug/l)	<10	<10
2-Acetylaminofluorene (ug/l)	<20	<20
2-Butanone (ug/l)	<10	<10
2-Chloro-1,3-butadiene (ug/l)	<2	<2
2-Chloronaphthalene (ug/l)	<10	<10
2-Chlorophenol (ug/l)	<10	<10
2-Hexanone (ug/L)	<10	<10
2-Methylnaphthalene (ug/l)	<10	<10
2-Methylphenol (ug/l)	<10	<10
2-Naphthylamine (ug/l)	<10	<10
2-Nitroaniline (ug/l)	<50	<50
2-Nitrophenol (ug/l)	<10	<10
2-Picoline (ug/l)	<80	<80
2-Sec-butyl-4,6-dinitrophenol (ug/l)	<10	<10
3 & 4 Methylphenol (ug/l)	<20	<20
3,3'-Dimethylbenzidine (ug/l)	<50	<50
3,3-Dichlorobenzidine (ug/l)	<20	<20
3-Chloroprene (ug/l)	<2	<2

Channel Sand Monitoring Wells - Analytical Data Summary Table - July 13, 2021 Page 2

Aber Road Landfill Client: Aber Road Landfill Data: Aber Road - CS Printed 9/21/2021, 9:42 AM

	MP-281C	MP-406C
3-Methylcholanthrene (ug/l)	<10	<10
3-Nitroaniline (ug/l)	<50	<50
44'-DDD (ug/l)	<0.05	<0.05
44'-DDE (ug/l)	<0.05	<0.05
44'-DDT (ug/l)	<0.05	<0.05
46-Dinitro-2-methylphenol (ug/l)	<50	<50
4-Aminobiphenyl (ug/l)	<10	<10
4-Bromophenyl phenyl ether (ug/l)	<10	<10
4-Chloro-3-Methylphenol (ug/l)	<10	<10
4-Chloroaniline (ug/l)	<10	<10
4-Chlorophenyl phenyl ether (ug/l)	<10	<10
4-Methyl-2-Pentanone (ug/l)	<10	<10
4-Nitroaniline (ug/l)	<50	<50
4-Nitrophenol (ug/l)	<50	<50
4-Nitroquinoline-1-oxide (ug/l)	<40	<40
5-Nitro-o-toluidine (ug/l)	<10	<10
712-Dimethylbenz[a]anthracene (ug/l)	<10	<10
a-BHC (ug/l)	<0.05	<0.05
Acenaphthene (ug/l)	<10	<10
Acenaphthylene (ug/l)	<10	<10
Acetone (ug/L)	<10	<10
Acetonitrile (ug/L)	<170	<170
Acetophenone (ug/l)	<10	<10
Acrolein (ug/L)	<20	<20
Acrylonitrile (ug/L)	<20	<20
Aldrin (ug/l)	<0.05	<0.05
Aniline (ug/l)	<10	<10
Anthracene (ug/l)	<10	<10
Antimony Dissolved (ug/l)	<1	<1
Aramite (ug/l)	<20	<20
Aroclor 1016 (ug/L)	<0.5	<0.5
Aroclor 1221 (ug/L)	<0.5	<0.5
Aroclor 1232 (ug/L)	<0.5	<0.5
Aroclor 1242 (ug/L)	<0.5	<0.5
Aroclor 1248 (ug/L)	<0.5	<0.5
Aroclor 1254 (ug/L)	<0.5	<0.5
Aroclor 1260 (ug/L)	<0.5	<0.5
Arsenic Dissolved (mg/L)	0.0044	0.0035
Barium Dissolved (mg/L)	0.054	0.15
b-BHC (ug/l)	<0.05	<0.05
Benzene (ug/L)	<2	<2
Benzo[a]anthracene (ug/l)	<10	<10
Benzo[a]pyrene (ug/l)	<0.18	<0.18
Benzo[b]fluoranthene (ug/l)	<10	<10
Benzo[ghi]perylene (ug/l)	<10	<10
Benzo[k]fluoranthene (ug/l)	<10	<10
Benzyl alcohol (ug/l)	<20	<20
Beryllium Dissolved (mg/l)	<0.002	<0.002
Bis[2-chloroethoxy]methane (ug/l)	<10	<10
Bis[2-chloroethyl]ether (ug/l)	<10	<10

Channel Sand Monitoring Wells - Analytical Data Summary Table - July 13, 2021 Page 3

Aber Road Landfill Client: Aber Road Landfill Data: Aber Road - CS Printed 9/21/2021, 9:42 AM

	MP-281C	MP-406C
Bis[2-ethylhexyl] phthalate (ug/l)	<5 (J)	<5
Bromoform (ug/L)	<2	<2
Bromomethane [Methyl bromide] (ug/l)	<2	<2
Butyl benzylphthalate [BBP] (ug/l)	<10	<10
Cadmium Dissolved (mg/L)	<0.001	<0.001
Carbon disulfide (ug/L)	<2	<2
Carbon tetrachloride (ug/L)	<2	<2
Chlordane (ug/l)	<0.5	<0.5
Chlorobenzene (ug/L)	<2	<2
Chlorobenzilate (ug/l)	<50	<50
Chloroethane (ug/L)	<2	<2
Chloroform (ug/L)	<2	<2
Chloromethane [Methyl chloride] (ug/l)	<2	<2
Chromium Dissolved (mg/L)	<0.005	<0.005
Chrysene (ug/l)	<10	<10
cis-1,3-Dichloropropylene (ug/L)	<2	<2
Cobalt Dissolved (mg/l)	<0.004	<0.004
Conductance Field (umhos/cm)	1293	1108
Copper Dissolved (mg/l)	<0.01	<0.01
Cyanide Total (mg/L)	<0.01	<0.01
d-BHC (ug/l)	<0.05	<0.05
Diallate (ug/l)	<10	<10
Dibenz[a,h]anthracene (ug/l)	<10	<10
Dibenzofuran (ug/l)	<10	<10
Dibromochloromethane (ug/L)	<2	<2
Dibromomethane (ug/L)	<2	<2
Dichlorobromomethane (ug/L)	<2	<2
Dichlorodifluoromethane (ug/L)	<2	<2
Dieldrin (ug/l)	<0.05	<0.05
Diethyl phthalate (ug/l)	<10	<10
Dimethoate (ug/l)	<10	<10
Dimethylaminoazobenzene (ug/l)	<50	<50
DIMETHYLPHTHALATE (ug/l)	<10	<10
Di-n-butylphthalate [DBP] (ug/l)	<10 (J)	<10 (J)
Di-n-octyl phthalate [DnOP] (ug/l)	<10	<10
Diphenylamine (ug/l)	<50	<50
Disulfoton (ug/l)	<0.47 (UJ)	<0.47 (UJ)
Endosulfan I (ug/l)	<0.05	<0.05
Endosulfan II (ug/l)	<0.05	<0.05
Endosulfan sulfate (ug/l)	<0.05	<0.05
Endrin (ug/l)	<0.05	<0.05
Endrin aldehyde (ug/l)	<0.05	<0.05
Ethyl methacrylate (ug/L)	<2	<2
Ethyl methanesulfonate (ug/l)	<10	<10
Ethylbenzene (ug/L)	<2	<2
Famphur (ug/l)	<0.47 (UJ)	<0.47 (UJ)
Fluoranthene (ug/l)	<10	<10
Fluorene (ug/l)	<10	<10
gamma-BHC [Lindane] (ug/l)	<0.05	<0.05
Heptachlor (ug/l)	<0.05	<0.05

Channel Sand Monitoring Wells - Analytical Data Summary Table - July 13, 2021 ^{Page 4}

Aber Road Landfill Client: Aber Road Landfill Data: Aber Road - CS Printed 9/21/2021, 9:42 AM

	MP-281C	MP-406C
Heptachlor epoxide (ug/l)	<0.05	<0.05
Hexachlorobenzene (ug/l)	<5	<5
Hexachlorobutadiene (ug/L)	<10	<10
Hexachlorocyclopentadiene (ug/l)	<5	<5
Hexachloroethane (ug/l)	<300	<300
Hexachlorophene (ug/l)	<310	<310
Hexachloropropene (ug/l)	<10	<10
Indeno[123-cd]pyrene (ug/l)	<10	<10
Iodomethane (ug/L)	<2	<2
Isobutyl alcohol (ug/L)	<1000	<1000
Isodrin (ug/l)	<10	<10
Isophorone (ug/l)	<10	<10
Isosafrole (ug/l)	<10	<10
Kepone (ug/l)	<52	<52
Lead Dissolved (mg/L)	<0.005	<0.005
m-Dinitrobenzene (ug/l)	<20	<20
Mercury Dissolved (mg/L)	<0.0002	<0.0002
Methacrylonitrile (ug/L)	<10	<10
Methapyrilene (ug/l)	<52	<52
Methoxychlor (ug/l)	<0.05	<0.05
Methyl methacrylate (ug/L)	<10	<10
Methyl methanesulfonate (ug/l)	<10	<10
Methyl parathion (ug/l)	<0.47 (UJ)	<0.47 (UJ)
Methylene chloride (ug/L)	<2	<2
Naphthalene (ug/L)	<10	<10
Nickel Dissolved (mg/l)	<0.01	<0.01
Nitrobenzene (ug/l)	<10	<10
N-Nitrosodiethylamine (ug/l)	<10	<10
N-Nitrosodimethylamine (ug/l)	<50	<50
N-Nitrosodi-n-butylamine (ug/l)	<10	<10
N-Nitrosodi-n-propylamine (ug/l)	<10	<10
N-Nitrosodiphenylamine (ug/l)	<10	<10
N-Nitrosomethylethylamine (ug/l)	<10	<10
N-Nitrosomorpholine (ug/l)	<10	<10
N-Nitrosopiperidine (ug/l)	<10	<10
N-Nitrosopyrrolidine (ug/l)	<10	<10
O-Toluidene (ug/l)	<20	<20
Oxygen, Dissolved (mg/l)	0.19	0.24
Parathion (ug/l)	<0.47 (UJ)	<0.47 (UJ)
Pentachlorobenzene (ug/l)	<10	<10
Pentachloroethane (ug/L)	<10	<10
Pentachloronitrobenzene (ug/l)	<10	<10
Pentachlorophenol (ug/l)	<1	<1
pH [Field] (su)	7.09	7.15
Phenacetin (ug/l)	<50	<50
Phenanthrene (ug/l)	<10	<10
Phenol (ug/l)	<10	<10
Phentermine (ug/l)	<100	<100
Phorate (ug/l)	<0.47 (UJ)	<0.47 (UJ)
p-Phenylene diamine (ug/l)	<800	<800

Channel Sand Monitoring Wells - Analytical Data Summary Table - July 13, 2021 Page 5

Aber Road Landfill Client: Aber Road Landfill Data: Aber Road - CS Printed 9/21/2021, 9:42 AM

	MP-281C	MP-406C
Pronamide (ug/l)	<10	<10
Propionitrile (ug/L)	<50	<50
Pyrene (ug/l)	<10	<10
Pyridine (ug/l)	<50	<50
Redox (millivolts)	-63.9	-65
Safrole (ug/l)	<10	<10
Selenium Dissolved (mg/L)	<0.015	<0.015
Silver Dissolved (mg/L)	<0.003	<0.003
Styrene (ug/L)	<2	<2
Sulfide (mg/l)	<1	<1
Sulfotep (ug/l)	<0.47 (UJ)	<0.47 (UJ)
sym-Trinitrobenzene (ug/l)	<50	<50
Temperature (Deg-C)	15.1	15
Tetrachloroethylene (ug/L)	<2	<2
Thallium Dissolved (ug/l)	<0.2	<0.2
Thionazin (ug/l)	<0.47 (UJ)	<0.47 (UJ)
Tin Dissolved (mg/l)	<0.01	<0.01
Toluene (ug/L)	<2	<2
Toxaphene (ug/l)	<0.5	<0.5
trans-13-Dichloropropylene (ug/L)	<2	<2
trans-14-Dichloro-2-butene (ug/L)	<5	<5
Trichloroethylene (ug/L)	<2	<2
Trichlorofluoromethane (ug/L)	<2	<2
Turbidity (NTU)	3.25	2.3
Vanadium Dissolved (mg/l)	<0.005	<0.005
Vinyl acetate (ug/L)	<10	<10
Vinyl chloride (ug/L)	<1	<1
Xylenes [Total] (ug/L)	<3	<3
Zinc Dissolved (mg/L)	<0.01	<0.01

Bedrock-Till Interface Monitoring Wells - Analytical Data Summary Table - July12-13, 2021

Aber Road Landfill Client: Aber Road Landfill Data: Aber Road - BTI Printed 9/21/2021, 9:39 AM

	MP-241R	MP-244R	MP-250	MP-279	MP-281	MP-409
1112-Tetrachloroethane (ug/L)	<2	<2	<2	<2	<2	<2
111-Trichloroethane (ug/L)	<2	<2	<2	<2	<2	<2
1122-Tetrachloroethane (ug/L)	<2	<2	<2	<2	<2	<2
112-Trichloroethane (ug/L)	<2	<2	<2	<2	<2	<2
11-Dichloroethane (ug/L)	<2	<2	<2	<2	<2	<2
11-Dichloroethylene (ug/L)	<2	<2	<2	<2	<2	<2
123-Trichloropropane (ug/L)	<2	<2	<2	<2	<2	<2
1245-Tetrachlorobenzene (ug/l)	<20	<20	<20	<20	<20	<20
124-Trichlorobenzene (ug/L)	<10 (J)	<10	<10	<10	<10	<10
12-Dibromo-3-chloropropane (ug/L)	<0.01	<0.011	<0.01	<0.01	<0.011	<0.011
12-Dibromoethane (ug/L)	<0.01	<0.011	<0.01	<0.01	<0.011	<0.011
12-Dichloroethylene (ug/l)	<2	<2	<2	<2	<2	<2
12-Dichlorobenzene (ug/L)	<10	<10	<10	<10	<10	<10
12-Dichloroethane (ug/L)	<2	<2	<2	<2	<2	<2
12-Dichloropropane (ug/L)	<2	<2	<2	<2	<2	<2
13-Dichlorobenzene (ug/L)	<10	<10	<10	<10	<10	<10
14-Dichlorobenzene (ug/L)	<10	<10	<10	<10	<10	<10
14-Dioxane (ug/L)	<1000	<1000	<1000	<1000	<1000	<1000
14-Naphthoquinone (ug/l)	<50	<50	<50	<50	<50	<50
1-Naphthylamine (ug/l)	<10	<10	<10	<10	<10	<10
22'-oxybis[1-Chloropropane] (ug/l)	<10	<10	<10	<10	<10	<10
2346-Tetrachlorophenol (ug/l)	<10	<10	<10	<10	<10	<10
245-T (ug/l)	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48
245-TP [Silvex] (ug/l)	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34
245-Trichlorophenol (ug/l)	<10	<10	<10	<10	<10	<10
246-Trichlorophenol (ug/l)	<10	<10	<10	<10	<10	<10
24-D (ug/l)	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2
24-Dichlorophenol (ug/l)	<10	<10	<10	<10	<10	<10
24-Dimethylphenol (ug/l)	<10	<10	<10	<10	<10	<10
24-Dinitrophenol (ug/l)	<50	<50	<50	<50	<50	<50
24-Dinitrotoluene (ug/l)	<10	<10	<10	<10	<10	<10
26-Dichlorophenol (ug/l)	<10	<10	<10	<10	<10	<10
26-Dinitrotoluene (ug/l)	<10	<10	<10	<10	<10	<10
2-Acetylaminofluorene (ug/l)	<20	<20	<20	<20	<20	<20
2-Butanone (ug/l)	<10	<10	<10	<10	<10	<10
2-Chloro-1,3-butadiene (ug/l)	<2	<2	<2	<2	<2	<2
2-Chloronaphthalene (ug/l)	<10	<10	<10	<10	<10	<10
2-Chlorophenol (ug/l)	<10	<10	<10	<10	<10	<10
2-Hexanone (ug/L)	<10	<10	<10	<10	<10	<10
2-Methylnaphthalene (ug/l)	<10	<10	<10	<10	<10	<10
2-Methylphenol (ug/l)	<10	<10	<10	<10	<10	<10
2-Naphthylamine (ug/l)	<10	<10	<10	<10	<10	<10
2-Nitroaniline (ug/l)	<50	<50	<50	<50	<50	<50
2-Nitrophenol (ug/l)	<10	<10	<10	<10	<10	<10
2-Picoline (ug/l)	<80	<80	<80	<80	<80	<80
2-Sec-butyl-4,6-dinitrophenol (ug/l)	<10	<10	<10	<10	<10	<10
3 & 4 Methylphenol (ug/l)	<20	<20	<20	<20	<20	<20
3,3'-Dimethylbenzidine (ug/l)	<50	<50	<50	<50	<50	<50
3,3-Dichlorobenzidine (ug/l)	<20	<20	<20	<20	<20	<20
3-Chloroprene (ug/l)	<2	<2	<2	<2	<2	<2

